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LANGUAGE Russian

THIS IS UNEVALUATED INFORMATION

ACTIVITIES OF THE GARM GEOPHYSICAL EXPEDITION,
ACADEMY OF SCIENCES USSR, IN 1949

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the character and direction of rock movements along both sides of the discontinuity. It should be noted that tilt measurements along one side of the discontinuity line, but at different points, produced similar indications. In addition, the expedition clarified some causes of disturbances in the behavior of tilts before earthquakes; however, the disturbances themselves are very small in magnitude, and thus are unnoticed where the tilts themselves are considerable.

As previously discovered by experiments, electric fields on the earth's surface appear simultaneously with the start of oscillatory motion from an explosion, and also atmospheric electric disturbances before destructive earthquakes have been observed occasionally; therefore, systematic studies of these phenomena must be set up in connection with earthquakes. The expedition organized observations on earth currents and atmospheric-electric phenomena. The works in this field gave some encouraging results and pointed out the necessity for further development of these studies. Slight variations in the geomagnetic field were also studied for this purpose.

One of the direct indexes of movement of the earth's crust before and after earthquakes is provided by the results of high-precision geodesic studies. In 1948, the expedition made triangulation and polygonometric surveys in the Garm region. After the destructive earthquake of 10 July 1949, the survey was repeated from the previous datum marks. Preliminary data established both horizontal and vertical displacements, and the magnitude of the displacements was several times greater than the accuracy of the geodesic measurements.

These works are highly promising and their repetition in the same region should provide concrete data on the character and magnitude of slow movements of the earth's surface.

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